

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL033022.D
 Acq On : 18 Dec 2018 12:11
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 1:58:49 PM

Quant Time: Dec 18 12:42:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1110059	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2729763	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2745297	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2018270	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1682801	11.356	ppbv	98
3) Chlorodifluoromethane	3.02	51	927462	11.032	ppbv	98
4) Chloromethane	3.17	50	496516	10.145	ppbv	98
5) Vinyl Chloride	3.29	62	518468	10.411	ppbv	100
6) Bromomethane	3.52	94	336860	10.815	ppbv	98
7) Chloroethane	3.61	64	198515	11.122	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1285073	10.435	ppbv	98
9) Propene	3.04	41	378943	11.400	ppbv	98
10) Heptane	8.25	43	1366344	10.942	ppbv	99
11) Trichlorofluoromethane	4.01	101	1550009	11.102	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1054709	8.854	ppbv	100
13) Ethanol	3.65	45	117393	10.257	ppbv	93
14) Bromoethene	3.79	108	470913	11.907	ppbv	100
15) Acetone	3.91	43	980466	10.290	ppbv	98
16) 1,3-Butadiene	3.37	39	421766	11.157	ppbv	97
17) tert-Butyl alcohol	4.36	59	278367	11.475	ppbv #	80
18) 1,1-Dichloroethene	4.36	96	490684	10.518	ppbv	97
19) Isopropyl Alcohol	4.03	45	800033	13.370	ppbv #	99
20) Methylene Chloride	4.41	84	434429	9.329	ppbv	98
21) Allyl Chloride	4.48	41	769510	9.910	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	491480	8.489	ppbv	100
23) Vinyl Acetate	5.16	43	2015514	12.494	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1279698m	9.123	ppbv	
25) Ethyl Acetate	5.77	43	2409119	10.704	ppbv	100
26) Hexane	5.78	57	1112599	10.707	ppbv	98
27) Carbon Disulfide	4.62	76	1232651	9.487	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	1873794	12.007	ppbv	100
29) Chloroform	5.85	83	1833479	9.889	ppbv	96
30) Cyclohexane	7.26	84	952452	11.059	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1129352	11.843	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1924457	9.809	ppbv	99
34) 2-Butanone	5.33	43	1558423	13.107	ppbv	100
35) Carbon Tetrachloride	7.14	117	2129634	9.925	ppbv	99
36) Benzene	7.01	78	2174175	10.829	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1452204	10.623	ppbv	99
38) Trichloroethene	7.97	130	897030	10.735	ppbv	99
39) 1,2-Dichloropropane	7.74	63	790430	10.380	ppbv	95
40) 1,4-Dioxane	7.96	88	355751	12.684	ppbv #	86
41) Tetrahydrofuran	6.15	42	858182	11.605	ppbv	100
42) Bromodichloromethane	7.92	83	2039443	10.768	ppbv	98
43) Methyl Methacrylate	8.14	69	880784	11.839	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3648247	10.704	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1164801	12.769	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1347510	12.069	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	900581	10.745	ppbv	98
48) Dibromochloromethane	10.46	129	1707674	10.861	ppbv	100
49) Bromoform	13.21	173	1176528	9.098	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2053875	10.802	ppbv	100
51) 2-Hexanone	10.28	43	1537429	11.922	ppbv #	99
52) Tetrachloroethene	11.38	164	790466	10.823	ppbv	97
53) Toluene	9.95	91	2513936	11.806	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1120639	8.559	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.29	131	1096108	8.956	ppbv	99
57) Chlorobenzene	12.31	112	1585454	7.996	ppbv	99
58) Ethyl Benzene	12.87	91	2770801	9.461	ppbv	99
59) m/p-Xylene	13.13	91	4711807m	17.746	ppbv	
60) o-Xylene	13.86	91	3002635	11.198	ppbv	100
61) Styrene	13.69	104	2195632	12.310	ppbv	99
62) Isopropylbenzene	14.83	105	4213704	11.264	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2040462	9.800	ppbv	100
64) n-propylbenzene	15.73	120	1087648	11.194	ppbv	98
65) tert-Butylbenzene	16.92	119	3758500	10.837	ppbv	100
66) Benzyl Chloride	17.16	91	2184875	11.366	ppbv	100
67) sec-Butylbenzene	17.47	105	5274686	10.316	ppbv	100
69) p-Isopropyltoluene	17.82	119	4392628	10.600	ppbv	99
70) n-Butylbenzene	18.72	91	4405178	11.555	ppbv	100
71) 2-Chlorotoluene	15.62	91	3139183	11.284	ppbv	100
72) 4-Ethyltoluene	16.01	105	3470278	11.593	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3322559	11.369	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3409457	10.332	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	1914283	9.851	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1890431	10.426	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	1848301	10.185	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1236785	12.393	ppbv	100
79) Naphthalene	22.42	128	2567583	12.051	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	649495	14.267	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1271838	11.255	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

